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1 [Interpolating the air for optimizing wireless data broadcast](#)

[Fotis Tsakiridis](#), [Panayiotis Bozaris](#), [Dimitrios Katsaros](#)

October 2007 [MobiWac '07: Proceedings of the 5th ACM international workshop on Mobility management and wireless access](#)

Publisher: ACM

Full text available: [Pdf](#) (343.19 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 36, Citation Count: 0

Energy conservation and access efficiency are two fundamental though competing goals in broadcast wireless networks. To tackle the energy penalty from sequential searching, the interleaving of index with data items has been proposed. The current broadcast ...

Keywords: energy consumption, indexing, interpolation search, latency, mobile computing, tuning time, wireless networks

2 [WS-replication: a framework for highly available web services](#)

[Jorge Salas](#), [Francisco Perez-Sorrosal](#), [Marta Patiño-Martínez](#), [Ricardo Jiménez-Peris](#)

May 2006 [WWW '06: Proceedings of the 15th international conference on World Wide Web 2006](#)

Publisher: ACM

Full text available: [Pdf](#) (3.13 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 41, Downloads (12 Months): 135, Citation Count: 3

Due to the rapid acceptance of web services and its fast spreading, a number of mission-critical systems will be deployed as web services in next years. The availability of those systems must be guaranteed in case of failures and network disconnections. ...

Keywords: WS-CAF, availability, group communication, transactions, web services

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3 [An object-oriented job execution environment](#)

[Lance Smith](#), [Rod Fatoohi](#)

November 2000 Supercomputing '00: Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: IEEE Computer Society

Full text available:  [Publisher Site](#),  Pdf (205.79 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 10, Citation Count: 0

This is a project for developing a distributed job execution environment for highly iterative jobs. An iterative job is one where the same binary code is run hundreds of times with incremental changes in the input values for each run. An execution environment ...

Key words: job scheduling, object-orientation, Java, and CORBA

4 [On using existing time-use study data for ubiquitous computing applications](#)



[Kurt Partridge](#), [Philippe Golle](#)

September 2008 UbiComp '08: Proceedings of the 10th international conference on Ubiquitous computing

Publisher: ACM

Full text available:  Pdf (619.53 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 54, Citation Count: 0

Governments and commercial institutions have conducted detailed time-use studies for several decades. In these studies, participants give a detailed record of their activities, locations, and other data over a day, week, or longer period. These studies ...


Key words: activity inference, diary studies, evaluation methodologies, mobile computing, time-use studies, ubiquitous computing

5 [Supply chain simulation: a simulation-based tool for inventory analysis in a server computer manufacturing environment](#)

[Heng Cao](#), [Feng Cheng](#), [Haifeng Xi](#), [Markus Ell](#), [Steve Buckley](#), [Carlos Rodriguez](#)

December 2003 WSC '03: Proceedings of the 35th conference on Winter simulation: driving innovation

Publisher: Winter Simulation Conference

Full text available:  Pdf (537.64 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 42, Citation Count: 1

In this paper, we describe a simulation-based inventory management tool developed for the IBM Enterprise Server Group. Through the Web interface of the tool, an inventory manager is able to visualize Days of Supply (DOS) levels — current and projected, ...

6 [Provisioning servers in the application tier for e-commerce systems](#)



[Daniel Villela](#), [Prashant Pradhan](#), [Dan Rubenstein](#)

February 2007 Transactions on Internet Technology (TOIT) , Volume 7 Issue 1

Publisher: ACM

Full text available: Pdf (198.70 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 175, Citation Count: 0

Server providers that support e-commerce applications as a service for multiple e-commerce Web sites traditionally use a tiered server architecture. This architecture includes an application tier to process requests for dynamically generated content. ...

Keyw ords: Eletronic commerce, server provisioning

7 [People-centric urban sensing](#)



[Andrew T. Campbell](#), [Shane B. Eisenman](#), [Nicholas D. Lane](#), [Emiliano Miluzzo](#), [Ronald A. Peterson](#)

August 2006 W I CON '06: Proceedings of the 2nd annual international workshop on Wireless internet

Publisher: ACM

Full text available: Pdf (249.73 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 44, Downloads (12 Months): 268, Citation Count: 8

The vast majority of advances in sensor network research over the last five years have focused on the development of a series of small-scale (100s of nodes) testbeds and specialized applications (e.g., environmental monitoring, etc.) that are built on ...

Keyw ords: mobile wireless sensor networks, people-centric, urban sensing

8 [Preventing injection attacks with syntax embeddings](#)



[Martin Bravenboer](#), [Eelco Dolstra](#), [Eelco Visser](#)

October 2007 GPCE '07: Proceedings of the 6th international conference on Generative programming and component engineering

Publisher: ACM

Full text available: Pdf (338.60 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 203, Citation Count: 0

Software written in one language often needs to construct sentences in another language, such as SQL queries, XML output, or shell command invocations. This is almost always done using *unhygienic string manipulation*, the concatenation of constants ...

Keyw ords: injection attacks, stringborg, syntax embedding

9 [The XCAT science portal](#)



[Sriram Krishnan](#), [Randall Bramley](#), [Dennis Gannon](#), [Madhusudhan Govindaraju](#), [Rahul Indurkar](#), [Aleksander Slominski](#), [Benjamin Temko](#), [Jay Alameda](#), [Richard Alkire](#), [Timothy Drews](#), [Eric Webb](#)

November 2001 Supercomputing '01: Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: ACM

Full text available: Pdf (224.53 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 29, Citation Count: 8

The design and prototype implementation of the XCAT Grid Science Portal is described in this paper. The portal lets grid application programmers easily script complex distributed computations and package these applications with simple interfaces for ...


Keyw ords: distributed simulations, grid, science portal, scripted applications

10 [re-View: an IV toolkit for extracting and relating dynamic views](#)

[Ryan C. Yates](#), [Janet L. Wesson](#)

October 2006 SAI CSI T '06: Proceedings of the 2006 annual research conference of the South African institute of computer scientists and information technologists on IT research in developing countries

Publisher: South African Institute for Computer Scientists and Information Technologists

Full text available:  Pdf (531.87 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 30, Citation Count: 0

Most information visualisation (IV) tools that are currently used do not support two of Shneiderman's seven interaction tasks for IV, namely the Extract and Relate tasks. These tasks provide support for the saving, loading and comparison of dynamic views. ...

Keyw ords: IV frameworks, IV toolkits, information visualization (IV), interaction techniques


11 [Observing the evolution of internet as topology](#)



[Ricardo V. Oliveira](#), [Beichuan Zhang](#), [Lixia Zhang](#)

August 2007 SI GCOMM '07: Proceedings of the 2007 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Full text available:  Pdf (439.69 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 39, Downloads (12 Months): 314, Citation Count: 1

Characterizing the evolution of Internet topology is important to our understanding of the Internet architecture and its interplay with technical, economic and social forces. A major challenge in obtaining empirical data on topology evolution is to identify ...

Keyw ords: internet topology, topology evolution

Also published in:

October 2007 **SIGCOMM Computer Communication Review** Volume 37 Issue 4


12 [Serpentine: adaptive middleware for complex heterogeneous distributed systems](#)



[M. Matos](#), [A. Correia, Jr.](#), [J. Pereira](#), [R. Oliveira](#)

March 2008 SAC '08: Proceedings of the 2008 ACM symposium on Applied computing

Publisher: ACM

Full text available:  Pdf (190.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 45, Citation Count: 0


Adaptation of system parameters is acknowledged as a requirement to scalable and dependable distributed systems. Unfortunately, adaptation cannot be effective when provided solely by individual system components as the correct decision is often tied ...

13 [Business-to-business interactions: issues and enabling technologies](#)

[B. Medjahed](#), [B. Benatallah](#), [A. Bouguettaya](#), [A. H. H. Ngu](#), [A. K. Elmagarmid](#)

May 2003 The VLDB Journal — The International Journal on Very Large Data Bases , Volume 12 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (558.34 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 125, Downloads (12 Months): 1005, Citation Count: 21

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business ...


Keywords: B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

14 [BUST: enabling scalable service orchestration](#)

[Dong Liu](#), [Ralph Deters](#)

June 2007 InfoScale '07: Proceedings of the 2nd international conference on Scalable information systems

Publisher: ICST (Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering)

Full text available:  Pdf (640.30 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 44, Citation Count: 0

Service-Oriented (SO) is a design and integration paradigm that is based on the notion of well defined, loosely coupled services. Within SO, services are viewed as computational elements that expose functionalities in a platform-independent manner ...

Keywords: BPEL, SOA, multithreading, performance, queueing model, scalability, service, service orchestration


15 [Industrial experience with building a web portal product line using a lightweight, reactive approach](#)



[Ulf Pettersson](#), [Stan Jarzabek](#)

September 2005 ESEC/ FSE-13: Proceedings of the 10th European software engineering conference held jointly with 13th ACM SIGSOFT international symposium on Foundations of software engineering

Publisher: ACM

Full text available:  Pdf (1.04 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 177, Citation Count: 4

Imprecise, frequently changing requirements and short time-to-market create challenges for application of conventional software methods in Web Portal engineering. To address these challenges, ST Electronics (Info-Software Systems) Pte. Ltd. applied a ...

Keywords: maintenance, program synthesis, reuse, software product lines, static meta-programming, web engineering

Also published in:

September 2005 **SIGSOFT Software Engineering Notes** Volume 30 Issue 5

16 [On-the-fly data integration models for biological databases](#)



[Pavithra G. Naidu](#), [Mathew J. Palakal](#), [Shielly Hartanto](#)

March SAC '07: Proceedings of the 2007 ACM symposium on Applied computing 2007

Publisher: ACM

Full text available: Pdf (421.07 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 138, Citation Count: 0

The web is a universal repository of information where there is an excellent opportunity to exploit the integration of online biological resources for knowledge discovery. A major challenge is to support the effective flow of information among the sources ...

Key words: BioMap, BioXBase, association discovery, concordance table, data integration, log gamma distribution, wrapper mapping tool

17 [An implementation of a software development track in an information technology degree program](#)



[Hazem Said](#), [Russ McMahon](#), [Soleda Leung](#), [Annu Prabhakar](#), [Tamisra Sanyal](#), [Mark Stockman](#), [Tom Wulf](#)

October CI TC5 '04: Proceedings of the 5th conference on Information technology education 2004

Publisher: ACM

Full text available: Pdf (239.39 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 21, Citation Count: 2

This paper will layout the University of Cincinnati's efforts in creating a software development track specialization for an information technology (IT) degree program to be started in the autumn quarter of 2004. The work done creating such an academic ...

Key words: curriculum, database, information technology, networking, software, web technologies

18 [EIU's ViewsWire: new wine in a new bottle](#)

[Peter Lovelock](#), [Ali F. Farhoomand](#)

December I CI S '00: Proceedings of the twenty first international conference on Information systems 2000

Publisher: Association for Information Systems

Full text available: Pdf (516.64 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 27, Citation Count: 0

19 [Resource allocation in a middleware for streaming data](#)



[Liang Chen](#), [Gagan Agrawal](#)

October MGC '04: Proceedings of the 2nd workshop on Middleware for grid computing 2004

Publisher: ACM

Full text available: Pdf (195.95 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 36, Citation Count: 1


Increasingly, a number of applications rely on, or can potentially benefit from, analysis and monitoring of <i>data streams.</i> To support processing of streaming data in a grid environment, we have been developing a middleware system called ...

20 [The Cutting Edge: The Penguin and the Dinosaur](#)

[Adam J. Thornton](#)

June 2000 [Linux Journal](#) , Volume 2000 Issue 74es

Publisher: [Specialized Systems Consultants, Inc.](#)

Full text available:  [HTML](#) (27.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 15, Citation Count: 0

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